

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

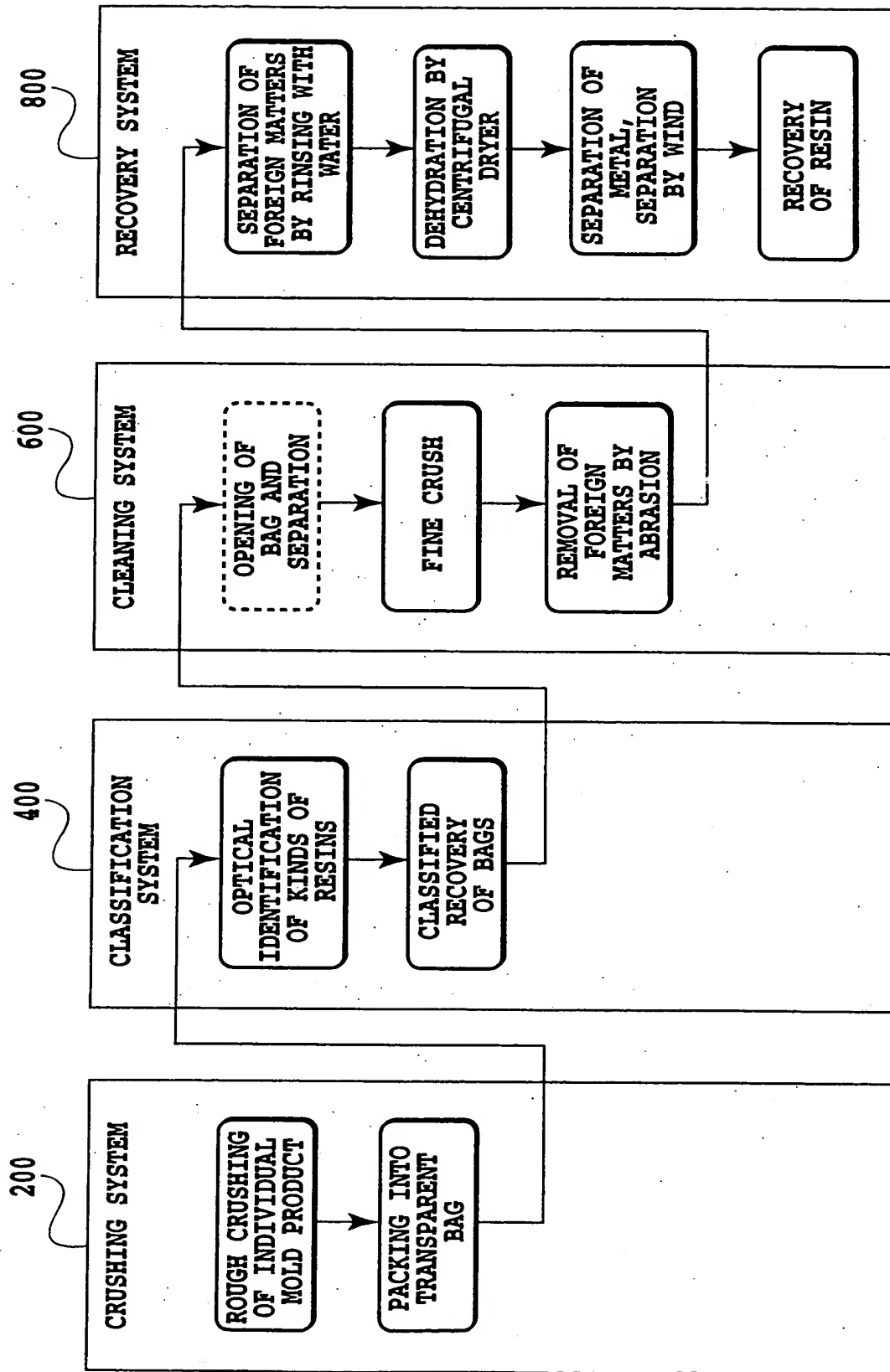


FIG.1

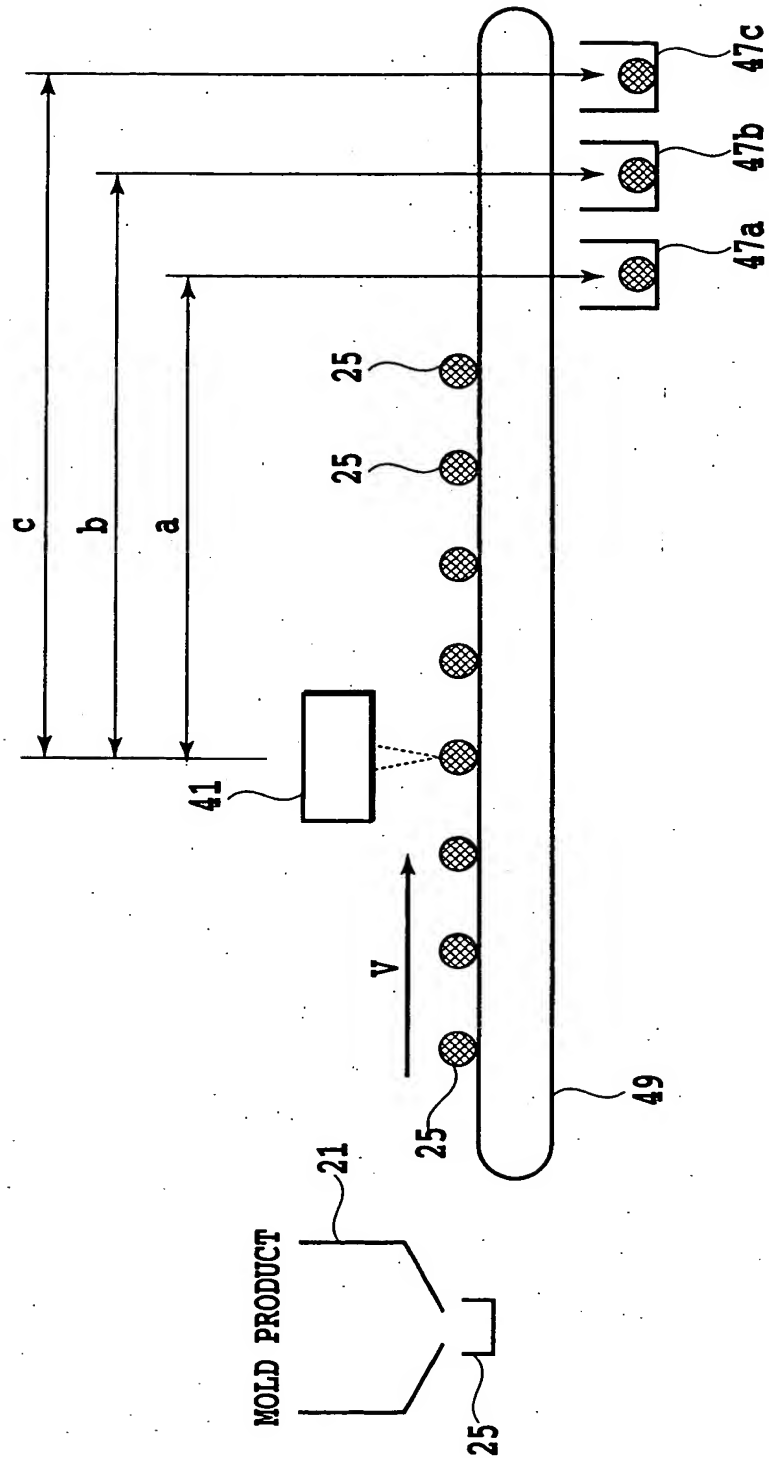


FIG.2

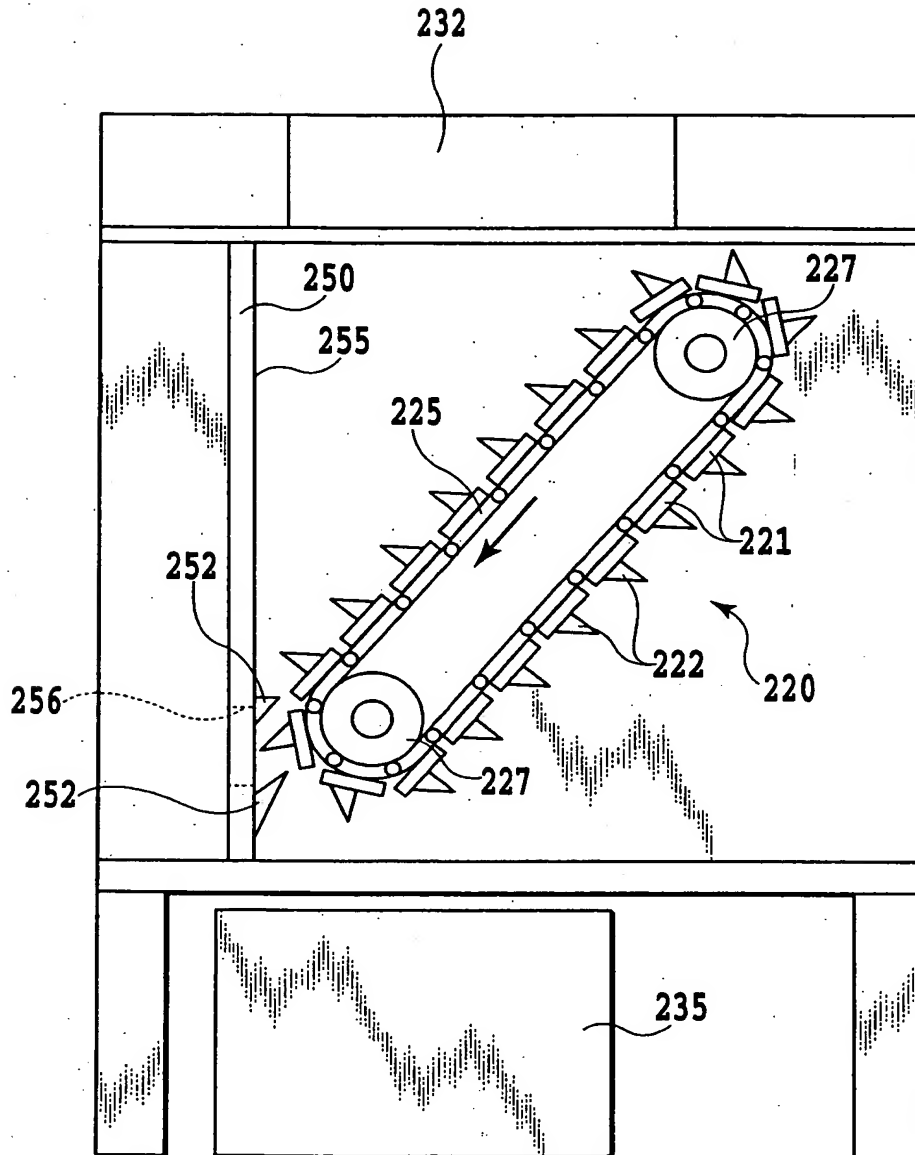


FIG.3

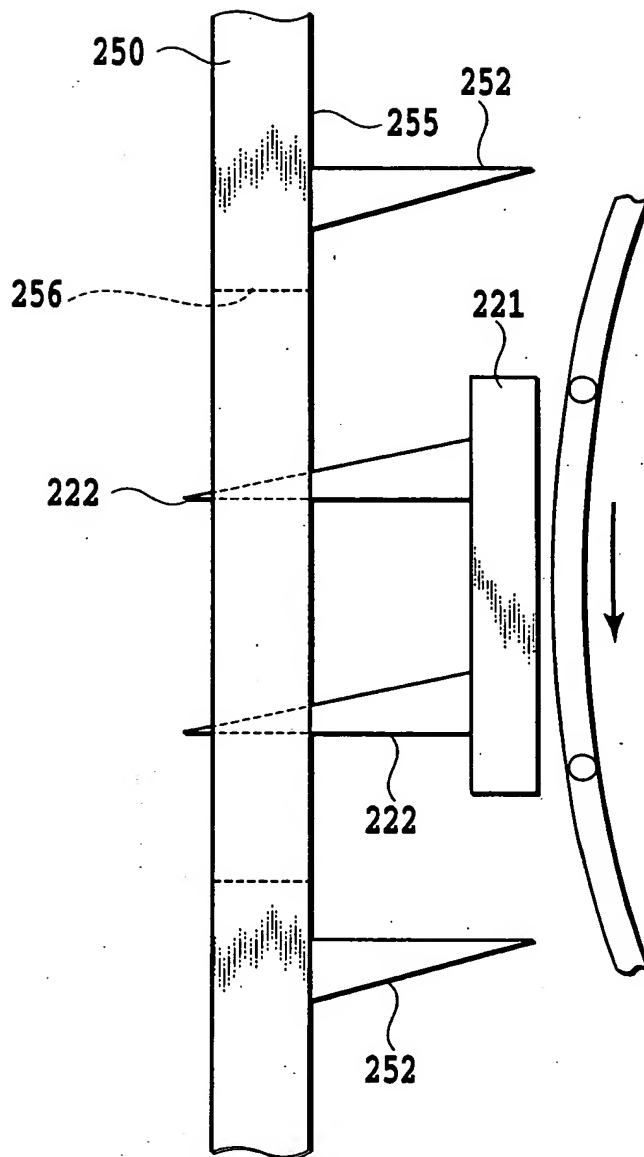
**FIG. 4**

FIG. 5A

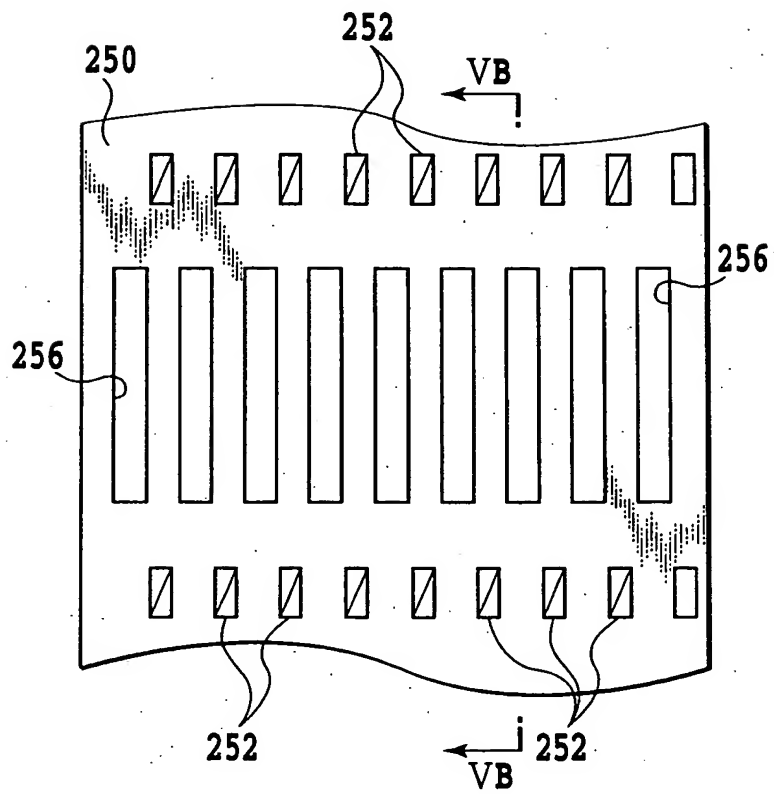
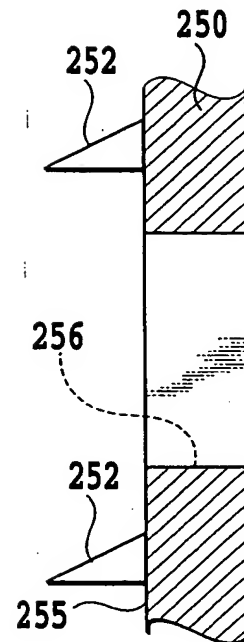
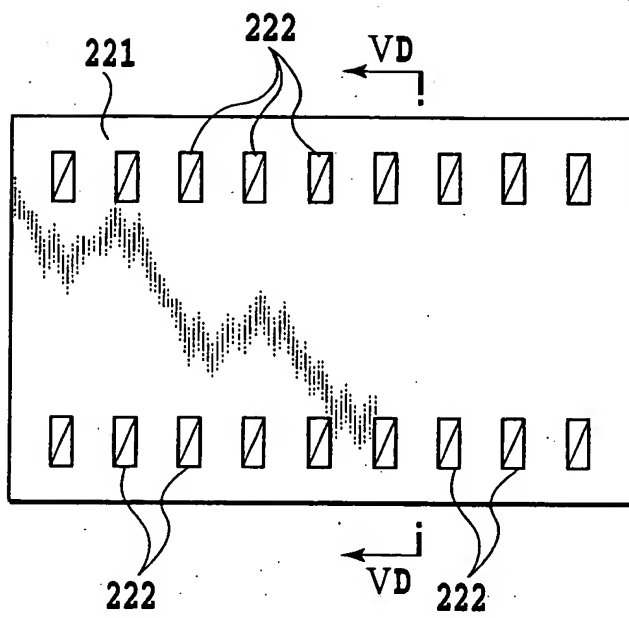
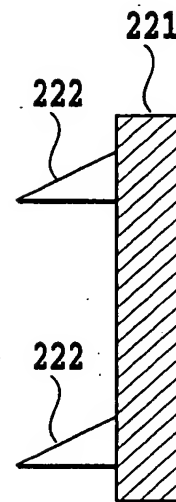
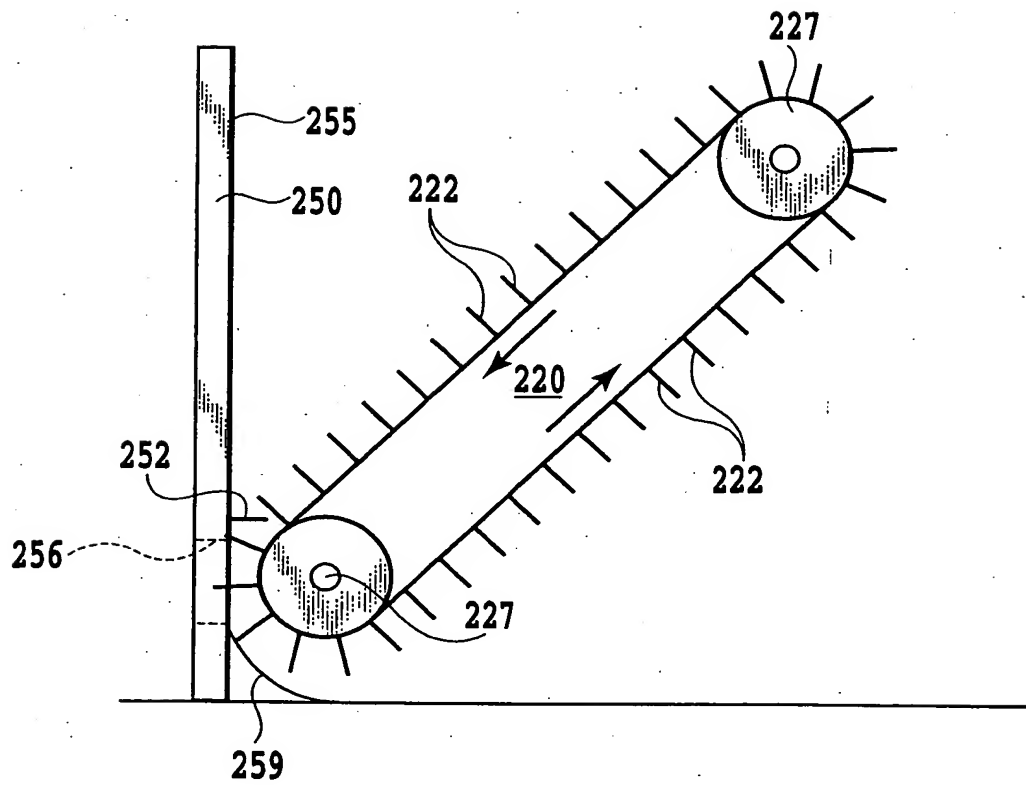


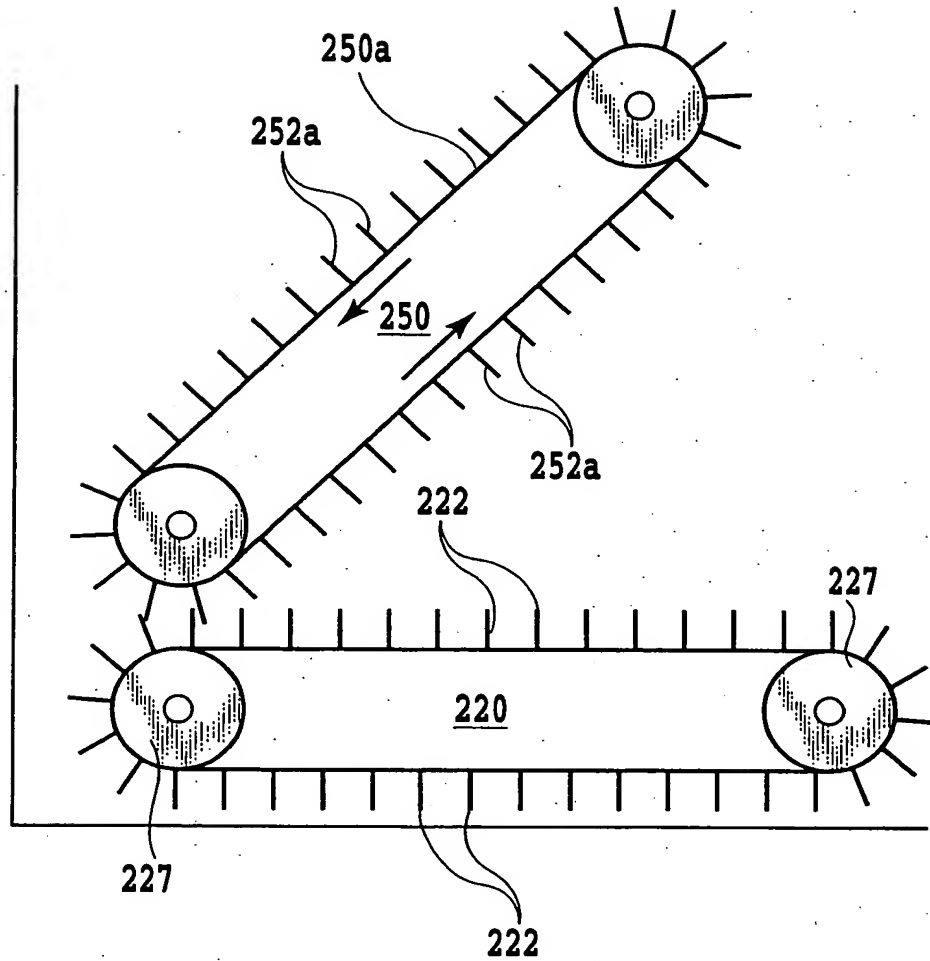
FIG. 5B



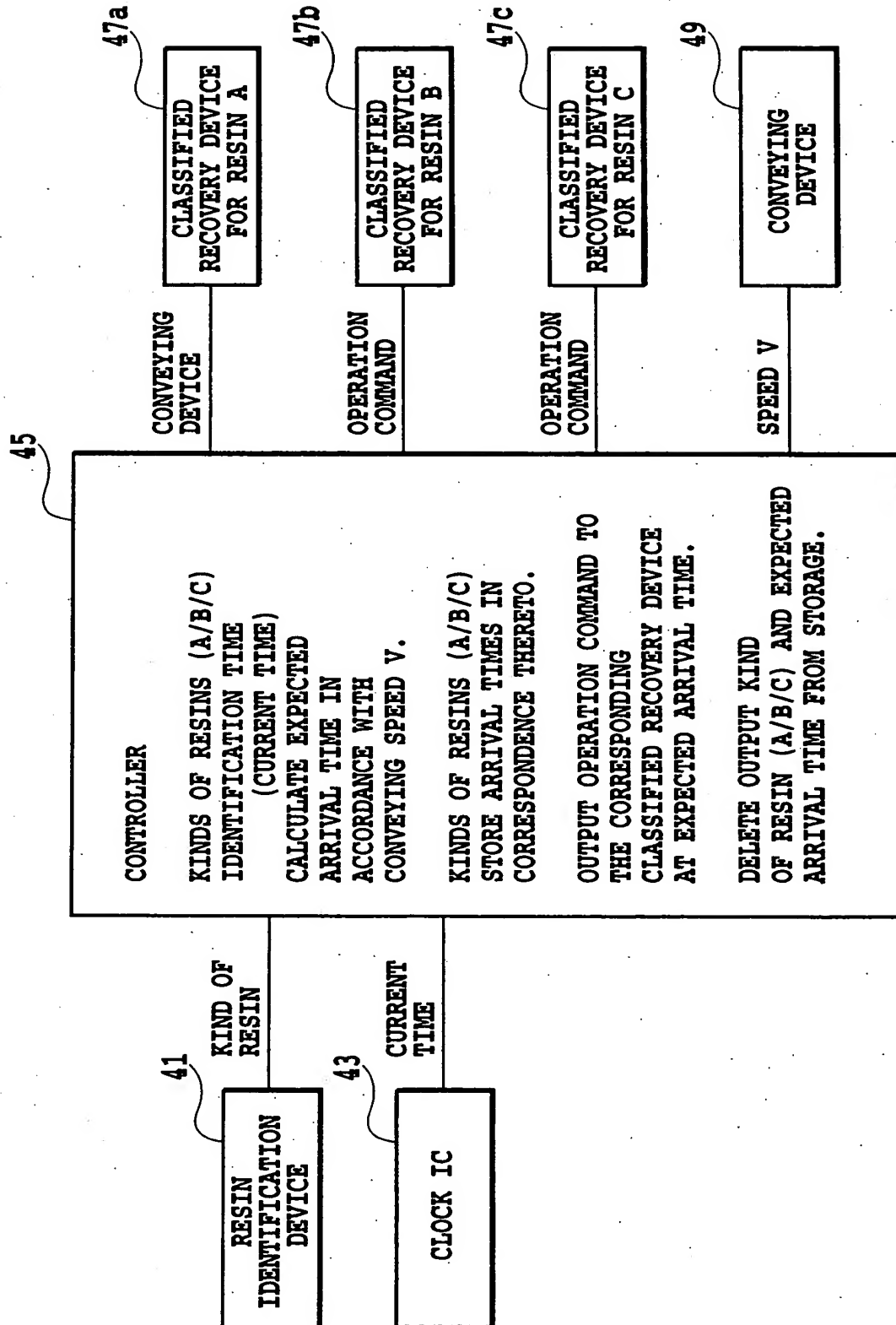
**FIG.5C****FIG.5D**

**FIG.6A**





**FIG.6B**



**FIG.7**

10/21

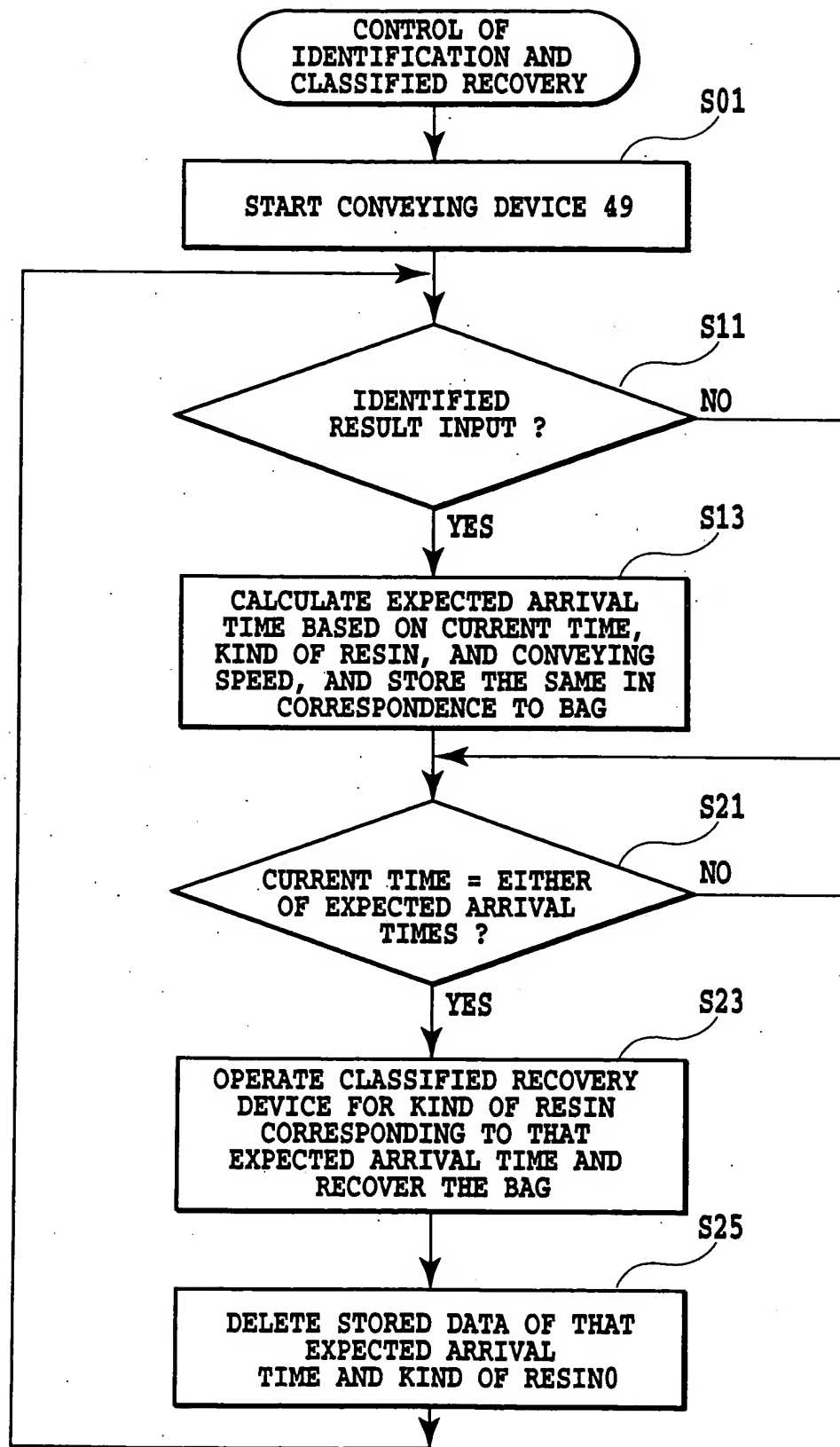


FIG.8

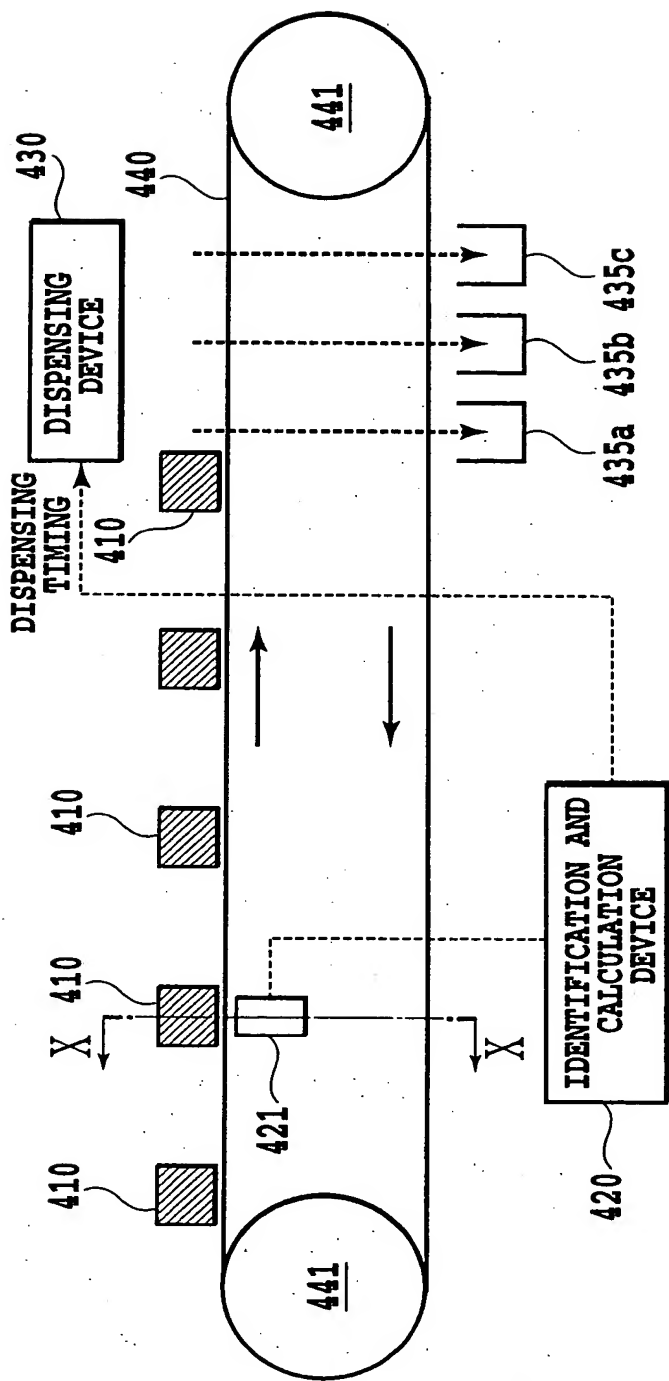


FIG. 9A

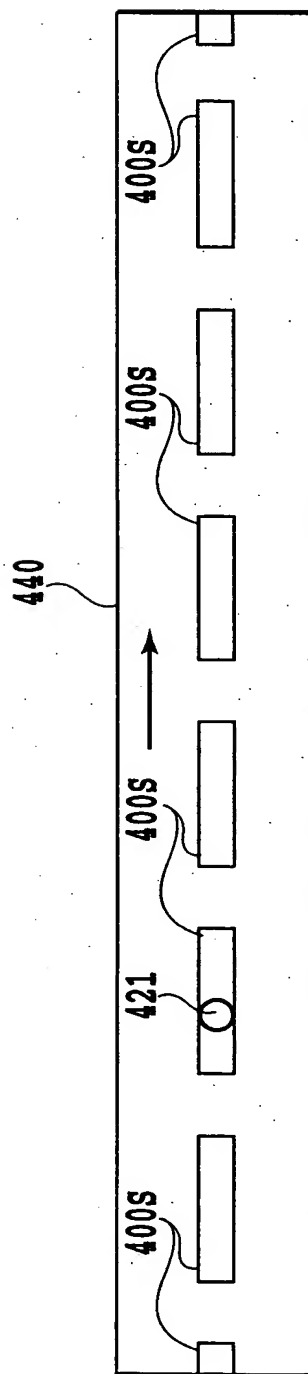


FIG. 9B

12/21

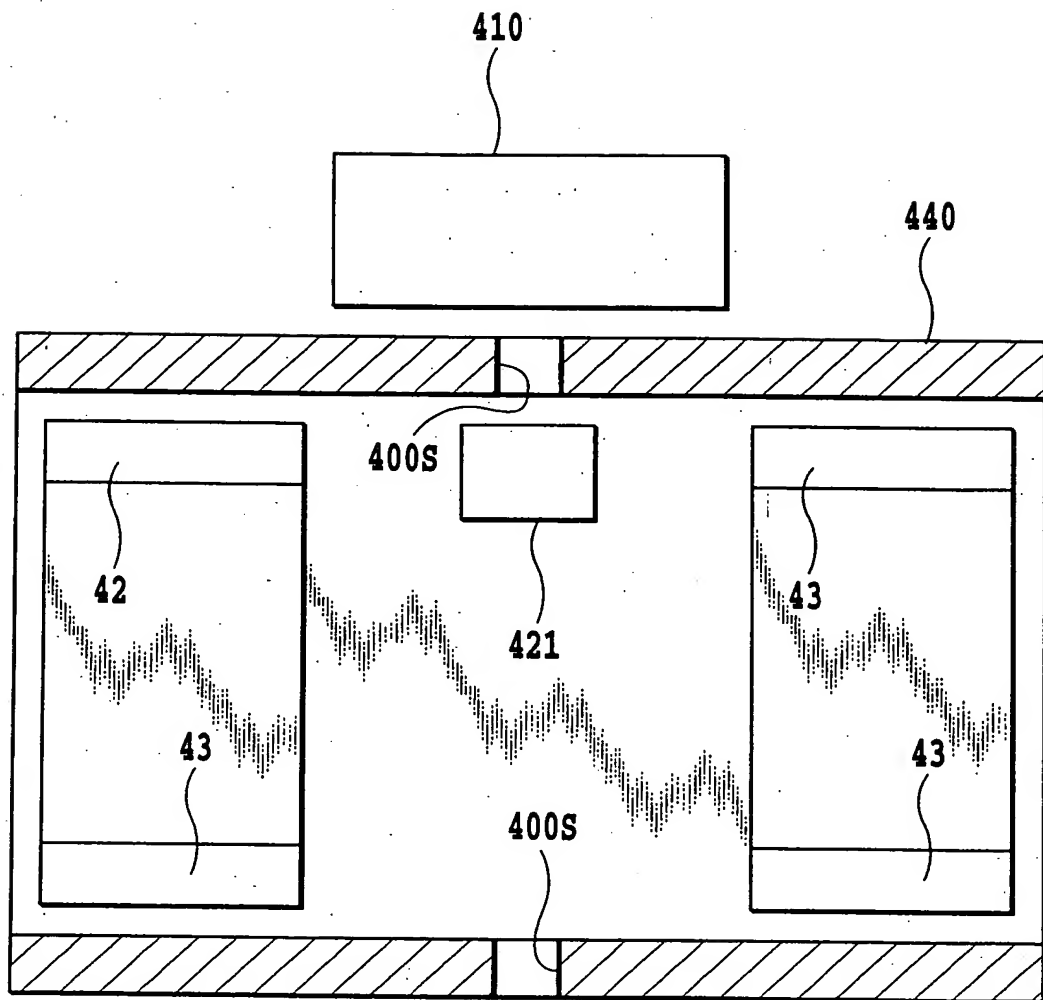


FIG.10

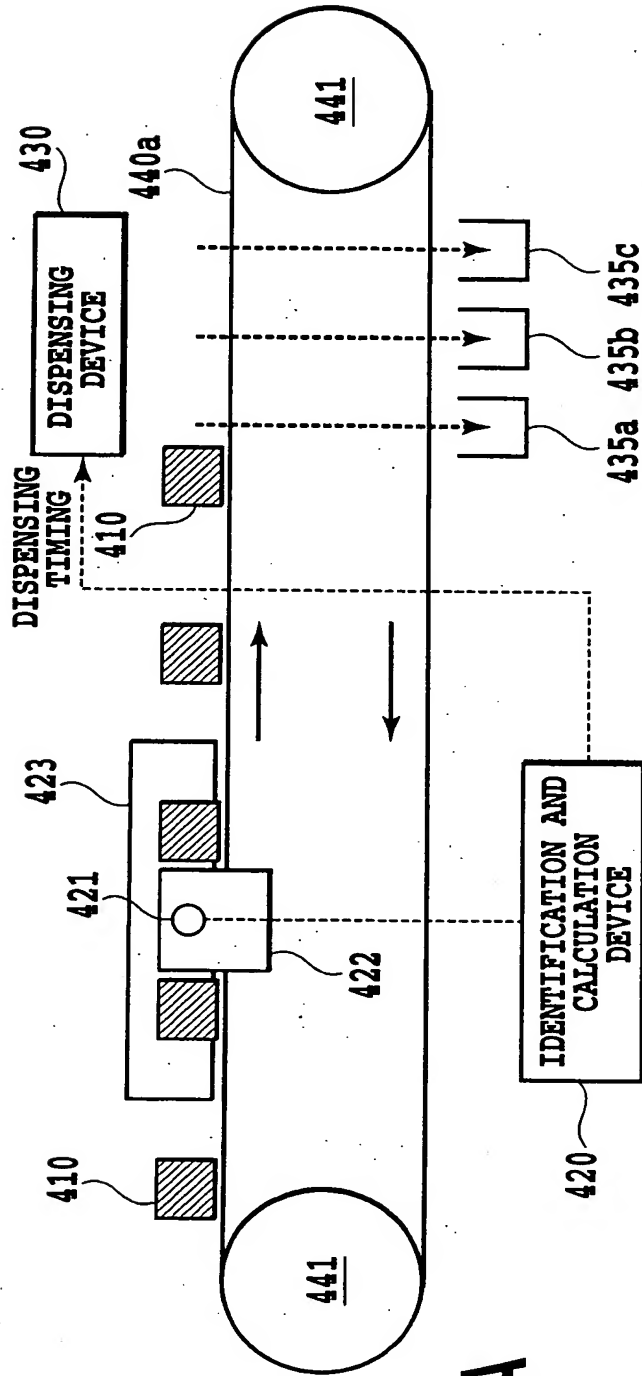


FIG. 11A

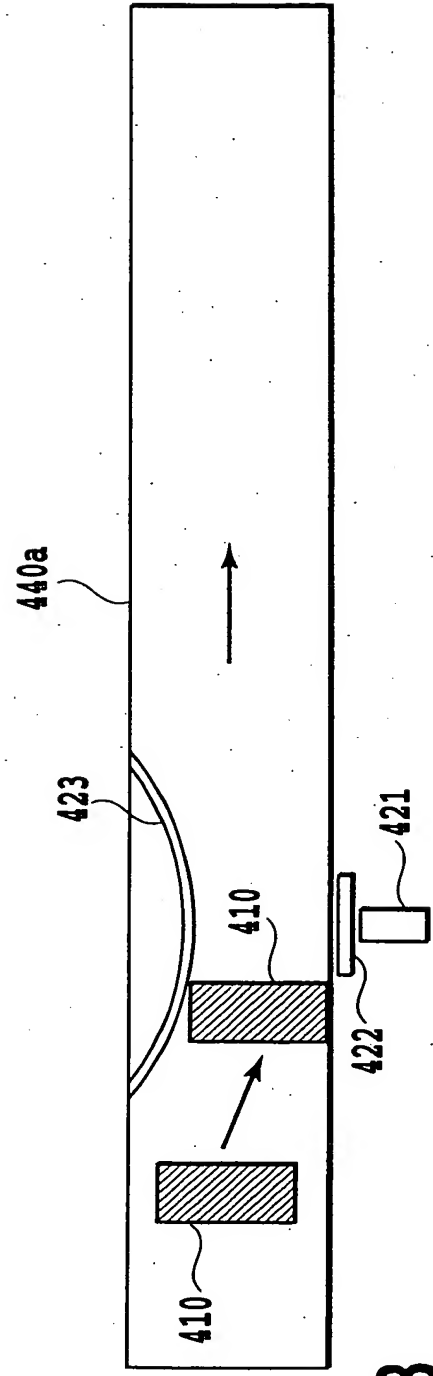


FIG. 11B

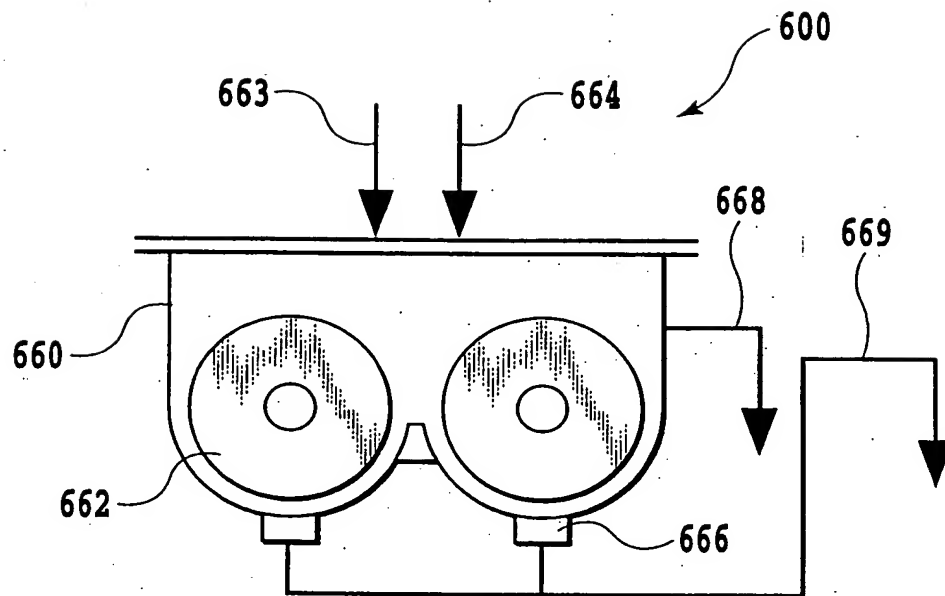
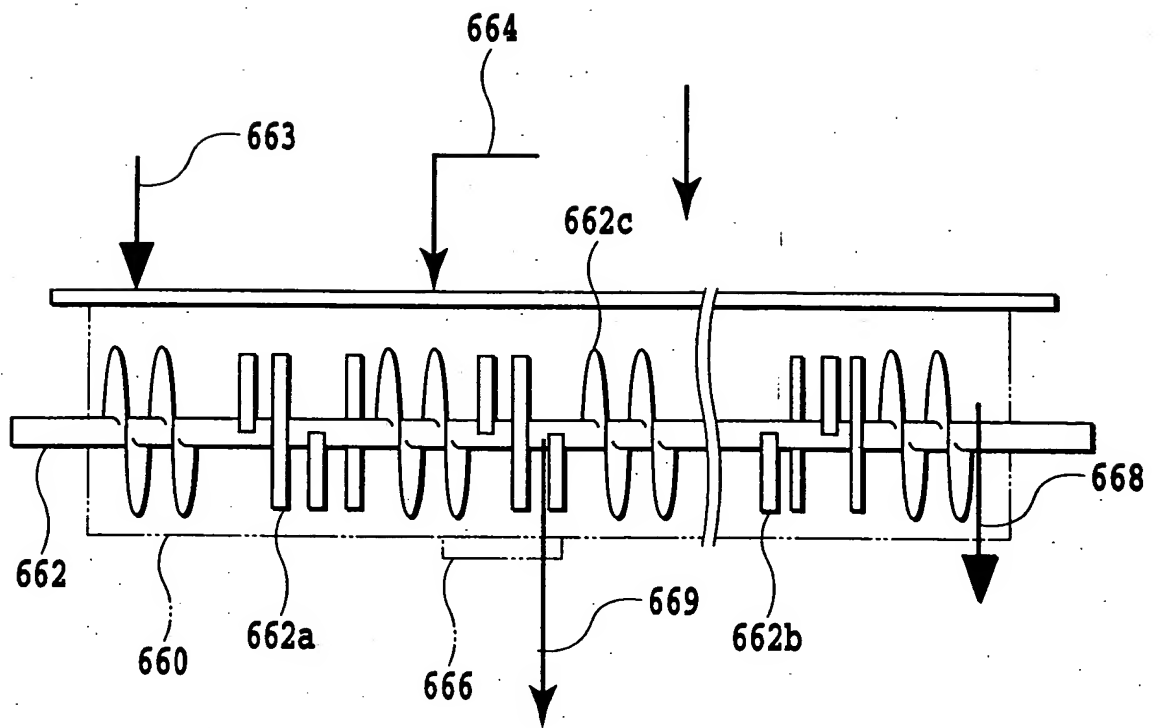
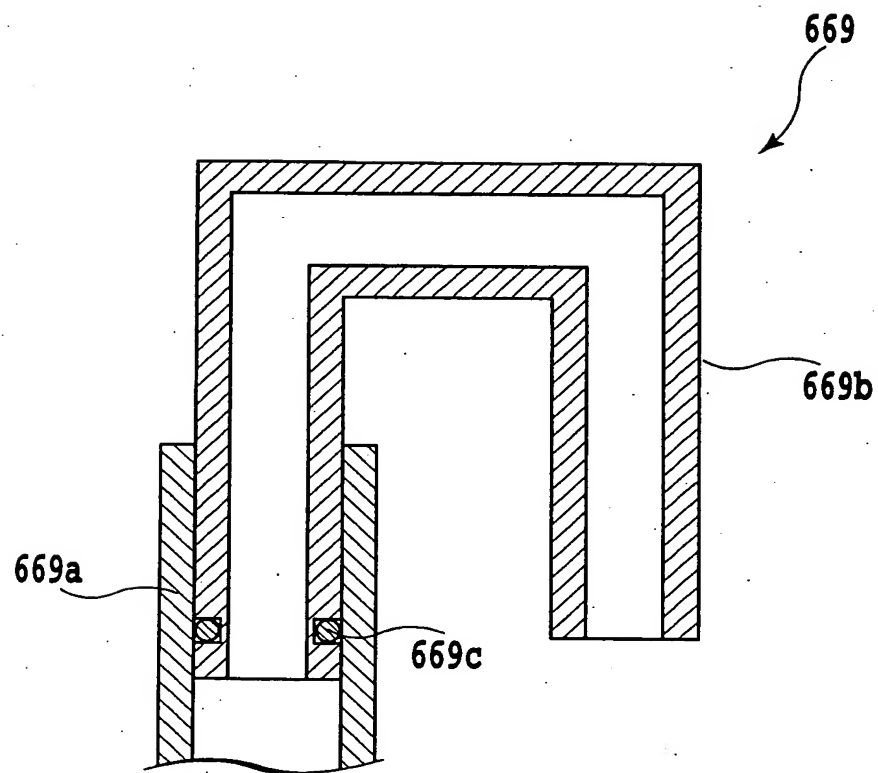


FIG.12

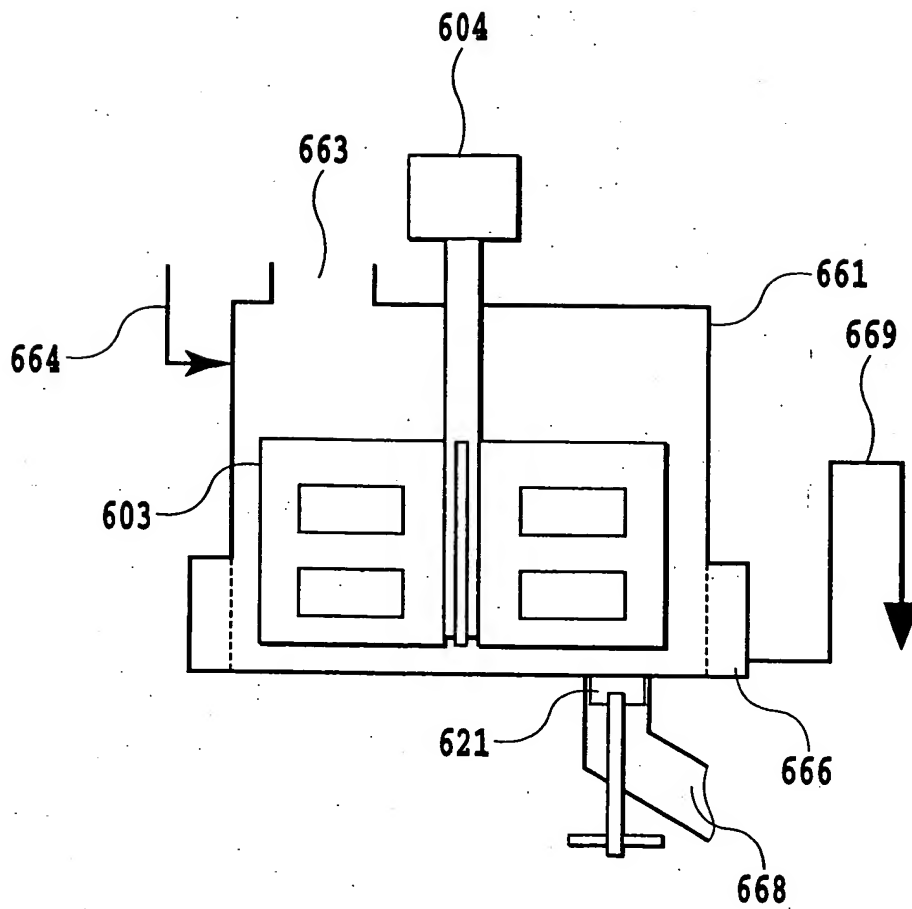


**FIG.13**





**FIG.14**

**FIG.15**

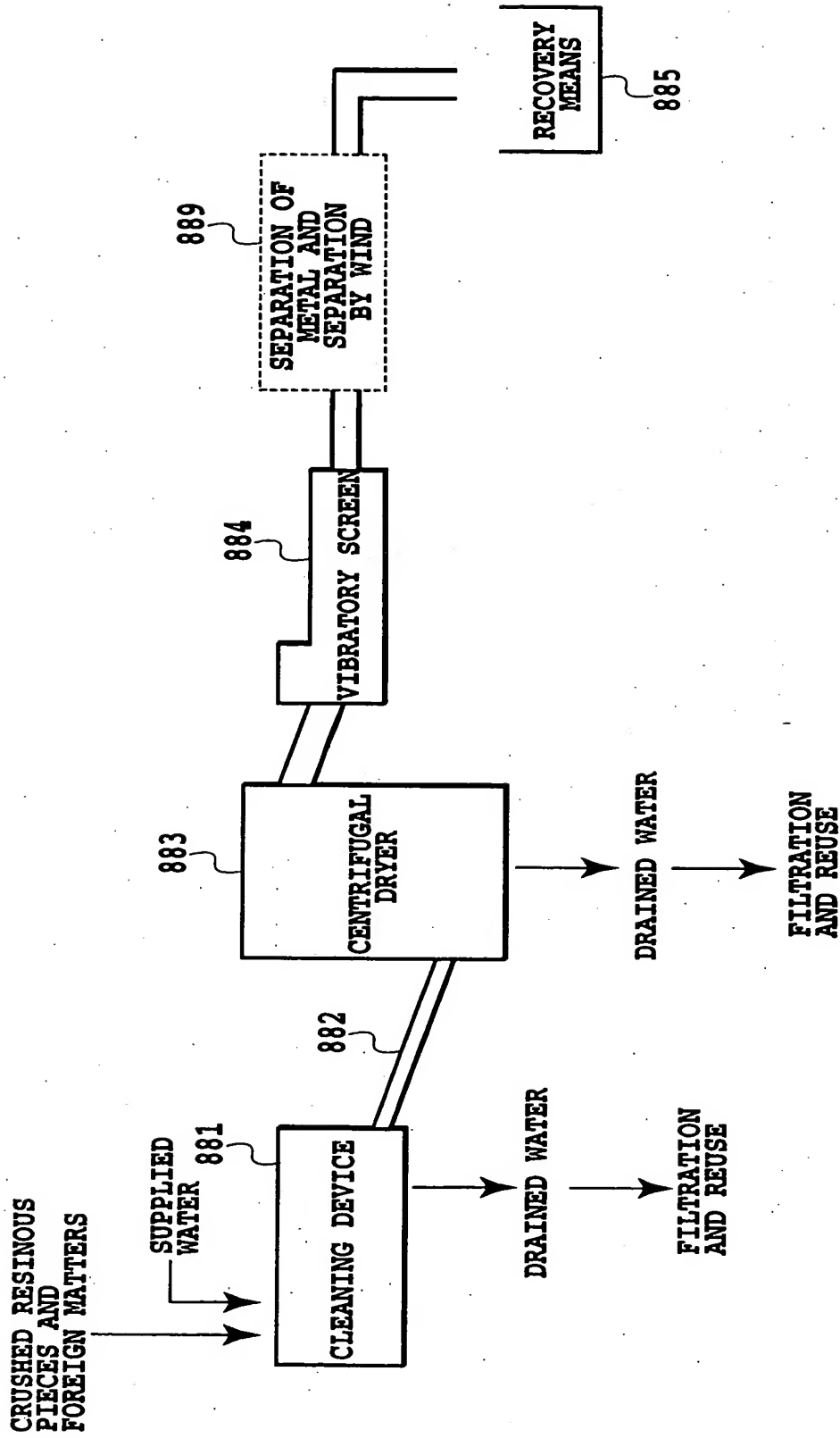


FIG.16

	EXAMPLE A	COMPARATIVE EXAMPLE A
TOTAL APPARENT VOLUME OF RESIN PARTS PRIOR TO BEING CRUSHED	130L	130L
TOTAL WEIGHT OF RESIN PARTS PRIOR TO BEING CRUSHED	11.3kg	11.3kg
BULKING DENSITY OF RESIN PARTS PRIOR TO BEING CRUSHED	0.09	0.09
BULKING DENSITY AFTER BEING CRUSHED	0.48	0.62
AVERAGE VALUE OF EQUIVALENT DIAMETERS OF CRUSHED RESINOUS PIECES	35mm	7mm
TOTAL WEIGHT OF CRUSHED RESINOUS PIECES	11.2kg	2.3kg
APPARENT VOLUME OF CRUSHED RESINOUS PIECES	23.3L	3.7L
ESTIMATION	ALL THE PARTS WERE CRUSHED TO REDUCE THEIR VOLUME	ONLY FIVE PARTS (2.3 KG) WERE CRUSHED TO FAIL THE REDUCTION OF VOLUME

FIG.17

20/21

ESTIMATION	EXAMPLE B	COMPARATIVE EXAMPLE B
TOTAL VOLUME OF RESIN PARTS PRIOR TO BEING CRUSHED (cm <sup>3</sup> )	4500	4500
TOTAL VOLUME OF RESIN PARTS AFTER BEING CRUSHED (cm <sup>3</sup> )	1115	1060
RATIO OF VOLUMES BETWEEN BEFORE AND AFTER BEING CRUSHED #1	4.0	4.2
NUMBER OF IDENTIFIED SAMPLES (PIECES)	3	ABOUT 2700#2
TIME REQUIRED FOR THE IDENTIFICATION (min)	0.15	ABOUT 135#3
IDENTIFIED RESULT	○	×

#1: (VOLUME OF RESIN PARTS PRIOR TO BEING CRUSHED) / (TOTAL VOLUME OF RESIN PARTS AFTER BEING CRUSHED)

#2: IT WAS ESTIMATED BY (WEIGHT OF RESIN PARTS PRIOR TO BEING CRUSHED) / (STANDARD WEIGHT OF ONE CRUSHED RESINOUS PIECE)

#3: IT WAS ESTIMATED BY (TOTAL WEIGHT OF CRUSHED RESINOUS PIECES) / (WEIGHT OF CRUSHED RESINOUS PIECES IDENTIFIABLE PER ONE MINUTE)

FIG.18

	EXAMPLE C	COMPARATIVE EXAMPLE C	COMPARATIVE EXAMPLE D	EXAMPLE D	COMPARATIVE EXAMPLE E	EXAMPLE E	COMPARATIVE EXAMPLE F
NUMBER OF FOREIGN MATTERS	FOREIGN MATTERS HAVING MAXIMUM LENGTH IN A RANGE FROM 0.05 TO 0.25 mm	3	NUMEROUS	4	IMPOSSIBLE TO MEASURE BECAUSE OF COATED FILM RESIDUE	4	NUMEROUS
	FOREIGN MATTERS HAVING MAXIMUM LENGTH IN A RANGE FROM 0.25 TO 0.5 mm	0	NUMEROUS	0		0	50 MORE
	FOREIGN MATTERS HAVING MAXIMUM LENGTH IN A RANGE FROM 0.5 mm OR MORE	0	50 MORE	0		0	30
NOTE	—	INOPERATIVE	LABEL PIECE LEFT	—	IMUCH COATED FILM RESIDUE	—	—
ESTIMATION	GOOD	NO GOOD	NO GOOD	GOOD	NO GOOD	GOOD	NO GOOD

FIG.19